

Message Text

UNCLASSIFIED

PAGE 01 STATE 195840

21

ORIGIN EUR-04

INFO OCT-01 ISO-00 /005 R

66011

DRAFTED BY EUR/RPE:JPOLANSKY:RP

APPROVED BY EUR/RPE:JPOLANSKY

----- 041196

R 062155Z AUG 76

FM SECSTATE WASHDC

TO USMISSION OECD PARIS

UNCLAS STATE 195840

FOLLOWING REPEAT BONN 13001 ACTION SECSTATE INFO EC BRUSSELS
ERDA WASHDC ERDA GERMANTOWN 3 AUG 76

QUOTE UNCLAS BONN 13001

E.O. 11652 N/A

TAGS: ENRG, GW

SUBJECT: TECHNOLOGIES FOR - THE CONSERVATION OF ENERGY

REF: A. STATE 190310; B. C-SI-6-50244

1. SUMMARY. THE DRAFT SUMMARY OF A GERMAN STUDY ON
" TECHNOLOGIES FOR THE CONSERVATION OF ENERGY " FORESEES
THAT BY 1985, 20 PERCENT OF THE ANNUAL ENERGY CONSUMPTION
IN PRIVATE HOUSEHOLDS IN THE FRG, 10 PERCENT OF INDUSTRI-
AL CONSUMPTION AND, BY 2000, ANOTHER 20 PERCENT IN THE
AUTOMOBILE SECTOR COULD BE SAVED BY THE RATIONAL USE
OF ENERGY AND BY THE APPLICATION OF NEW TECHNOLOGIES.
END SUMMARY.

2. THE STUDY WHICH WAS PREPARED BY THE PRIVATE ENGINEE-
RING CONSULTING FIRM " FICHTNER BERATENDE INGENIEURE,
STUTTGART " UNDER THE CONTRACT OF THE FEDERAL MINISTRY
FOR RESEARCH AND TECHNOLOGY (BMFT) GIVES RESULTS OF
CALCULATIONS OF IMPROVEMENTS IN THE RATIONAL USE OF
ENERGY WHICH COULD BE ACHIEVED BY APPLICATION OF
NEW TECHNOLOGIES AS WELL AS RECOMMENDATIONS ABOUT
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PAGE 02 STATE 195840

POSSIBLE GOVERNMENT MEASURES TO CUT DOWN ENERGY CON-

SUMPTION. THE LATTER RESULTS WHICH WERE PREPARED BY A PROJECT STUDY GROUP OF THE UNIVERSITY OF ESSEN WILL APPEAR IN A 5000 PAGE TEXT WHICH IS EXPECTED TO BE PUBLISHED BY LATE SEPTEMBER.

3. FOLLOWING IS A SUMMARY OF SOME OF THE HIGHLIGHTS FROM A 16 PAGE DRAFT SUMMARY OF THIS STUDY.

4. ONE OF THE MOST STRIKING RESULTS IS THAT IN THE PERIOD 1960-73 ENERGY CONSUMPTION IN THE PRIVATE HOUSEHOLD SECTOR ROSE FROM 36 TO 44 PERCENT OF THE TOTAL ENERGY PRODUCTION. THE TRAFFIC SECTOR REMAINED ALMOST CONSTANT WITH AN INCREASE IN CONSUMPTION FROM 15 TO 18 PERCENT. INDUSTRIAL CONSUMPTION DROPPED SIGNIFICANTLY FROM 49 TO 38 PERCENT. EVEN MORE DRAMATIC IS THE INCREASE IN THE OIL CONSUMPTION: WHILE INDUSTRY INCREASED BY 260 PERCENT AND REQUIREMENTS FOR TRANSPORTATION INCREASED BY 207 PERCENT -- PRIVATE HOUSEHOLDS DEMANDED A 577 PERCENT INCREASE.

5. BECAUSE UP TO 86 PERCENT OF THE PRIVATE HOUSEHOLD CONSUMPTION IS SPENT FOR HEATING, THE STUDY RECOMMENDS " LESS GENEROUS " HEATING HABITS. FOR EXAMPLE, A DROP IN THE ROOM TEMPERATURE BY 1.5 DEGREES CELSIUS WOULD CORRESPOND TO AN ENERGY CONSERVATION OF 10 PERCENT. SUCH EFFECTIVE ENERGY CONSERVATION MEASURES WITHOUT ADDITIONAL COSTS ARE FAVORED OVER TECHNOLOGICAL MEASURES THAT WOULD REQUIRE SUBSTANTIAL INVESTMENT.

6. THE METHODS TO REDUCE ENERGY CONSUMPTION IN THE INDUSTRY ARE MUCH LESS OBVIOUS. INDUSTRY HAS EXPENDED CONSIDERABLE EFFORT ON THE REDUCTION OF ENERGY NEEDS. THE STUDY CITES A NUMBER OF WAYS TO DECREASE THE ENERGY DEMAND FOR INDUSTRIAL PRODUCTION BUT POINTS OUT THAT MOST OF THESE ARE NOT FEASIBLE AS THEY REQUIRE UNPROFITABLE INVESTMENTS.

7. THE CALCULATED DECREASE IN ENERGY USE IN THE AUTOMOBILE SECTOR OF 20 PERCENT WOULD RESULT FROM TECHNOLOGICAL IMPROVEMENTS SUCH AS LIGHTER VEHICLES WITH UNCLASSIFIED

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PAGE 03 STATE 195840

BETTER AERODYNAMICS, IMPROVED ENGINES AND OVERALL USE OF RADIAL TIRES.

8. THE FEDERAL GOVERNMENT HAS UNDERTAKEN THE FIRST STEP TO CONTRIBUTE TO THE RATIONAL USE OF ENERGY THROUGH LEGISLATIVE MEASURES BY INTRODUCING A LAW ON ENERGY SAVING. THIS LAW WHICH PASSED PARLIAMENT ON JUNE 27, 1976 ESTABLISHES A BASIS FOR REGULATIONS IN THE FOLLOWING

FIELDS: BETTER INSULATION IN NEWLY BUILT HOMES, IMPROVEMENTS IN HEATING AND VENTILATION SYSTEMS AND REGULAR MONITORING OF LARGE INSTALLATIONS.

9. THE BMFT HAS ALSO COMMISSIONED A STUDY ON "SAVING IN PRIMARY ENERGY THROUGH ENVIRONMENTALLY FAVORABLE HEAT-POWER COUPLING-- PREPARATION OF A HEAT MAP" WHICH IS BEING PERFORMED BY THE ASSOCIATION OF DISTRICT HEATING SUPPLIERS. THIS STUDY, WHICH IS TO BE COMPLETED BY LATE SEPTEMBER, WILL BE PART OF THE BASIS FOR A LONG TERM FRG ENERGY STRATEGY.

10. AS REQUESTED REF B, THIS DRAFT SUMMARY IN GERMAN HAS BEEN POUCHED TO OES: ATTENTION PROCHNIK.
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Message Attributes

Automatic Decaptioning: X
Capture Date: 01 JAN 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: CONSERVATION, ENERGY, STUDIES
Control Number: n/a
Copy: SINGLE
Draft Date: 06 AUG 1976
Decaption Date: 01 JAN 1960
Decaption Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Authority: n/a
Disposition Case Number: n/a
Disposition Comment:
Disposition Date: 01 JAN 1960
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1976STATE195840
Document Source: CORE
Document Unique ID: 00
Drafter: JPOLANSKY:RP
Enclosure: n/a
Executive Order: N/A
Errors: N/A
Film Number: D760304-0994
From: STATE
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1976/newtext/t19760878/aaaacqsc.tel
Line Count: 131
Locator: TEXT ON-LINE, ON MICROFILM
Office: ORIGIN EUR
Original Classification: UNCLASSIFIED
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 3
Previous Channel Indicators: n/a
Previous Classification: n/a
Previous Handling Restrictions: n/a
Reference: 76 STATE 190310
Review Action: RELEASED, APPROVED
Review Authority: SmithRJ
Review Comment: n/a
Review Content Flags:
Review Date: 12 APR 2004
Review Event:
Review Exemptions: n/a
Review History: RELEASED <12 APR 2004 by ReddocGW>; APPROVED <10 DEC 2004 by SmithRJ>
Review Markings:

Margaret P. Grafeld
Declassified/Released
US Department of State
EO Systematic Review
04 MAY 2006

Review Media Identifier:
Review Referrals: n/a
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
Secure: OPEN
Status: NATIVE
Subject: TECHNOLOGIES FOR - THE CONSERVATION OF ENERGY
TAGS: ENRG, GE
To: OECD PARIS
Type: TE
Markings: Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 04 MAY 2006